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**WATER SUPPLY OUTLOOK  
FOR  
COLORADO AND NEW MEXICO**

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CURRENT SERIAL RECORDS

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE  
and

COLORADO AGRICULTURAL EXPERIMENT STATION  
STATE ENGINEER of COLORADO  
and STATE ENGINEER of NEW MEXICO

Data included in this report were obtained by the agencies named above in cooperation with the Bureau of Reclamation, U.S. Forest Service, National Park Service, Corps of Engineers and other Federal, State, and private organizations.

AS OF  
FEB. 1, 1967

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

### PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	P. O. Box 38, Boise, Idaho 83701
Montana	P. O. Box 855, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4001 Federal Building, Salt Lake City, Utah 84111
Washington	840 Bon Marche Bldg., Spokane, Washington 99206
Wyoming	P. O. Box 340, Casper, Wyoming 82602

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# FEDERAL-STATE COOPERATIVE SNOW SURVEYS AND WATER SUPPLY FORECASTS for COLORADO RIVER, PLATTE RIVER ARKANSAS RIVER AND RIO GRANDE DRAINAGE BASINS issued

February 1, 1967

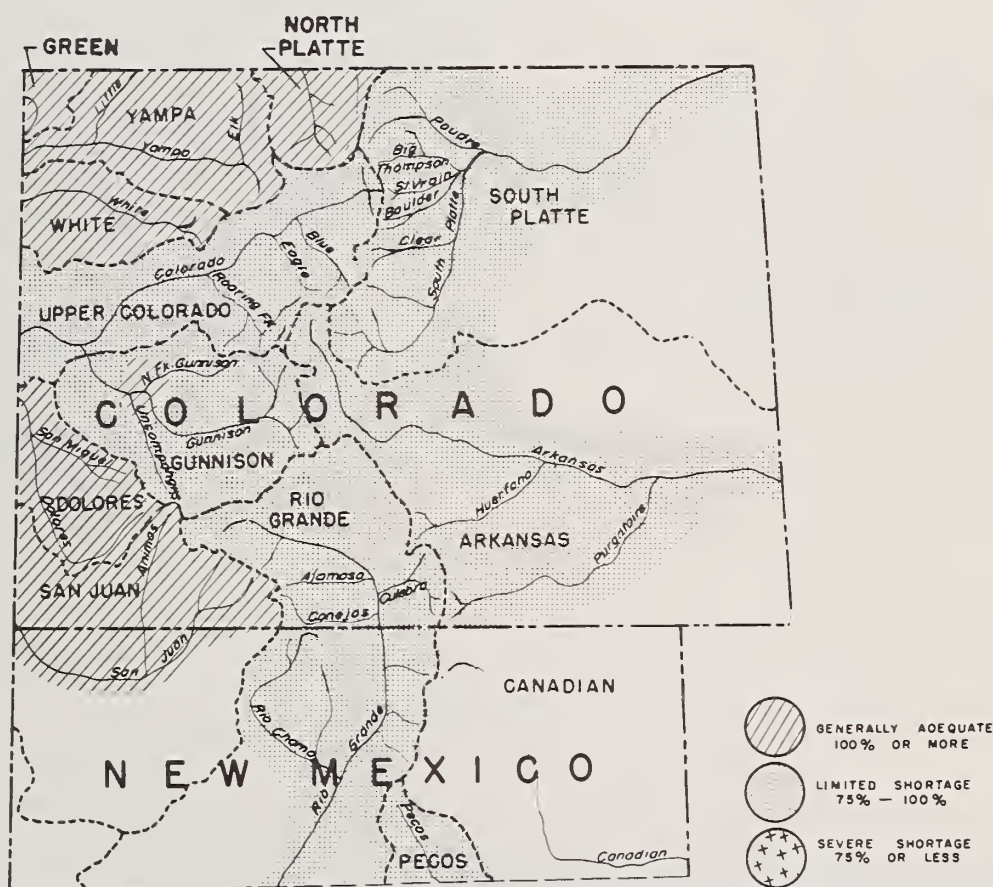
Report Prepared By

Jack N. Washichek, Snow Survey Supervisor  
and  
Donald W. McAndrew, Assistant Snow Survey Supervisor  
Fort Collins, Colorado

United States Department of Agriculture  
Soil Conservation Service  
and  
Colorado Agricultural Experiment Station  
Fort Collins, Colorado

State Engineer of Colorado  
Denver, Colorado  
and  
State Engineer of New Mexico  
Santa Fe, New Mexico

## WATER SUPPLY OUTLOOK



THE MAP ON THIS PAGE INDICATES THE MOST PROBABLE WATER SUPPLY AS OF THE DATE OF THIS REPORT. ESTIMATES ASSUME AVERAGE CONDITIONS OF SNOW FALL, PRECIPITATION AND OTHER FACTORS FROM THIS DATE TO THE END OF THE FORECAST PERIOD. AS THE SEASON PROGRESSES ACCURACY OF ESTIMATES IMPROVE. IN ADDITION TO EXPECTED STREAMFLOW, RESERVOIR STORAGE, SOIL MOISTURE IN IRRIGATED AREAS, AND OTHER FACTORS ARE CONSIDERED IN ESTIMATING WATER SUPPLY. ESTIMATES APPLY TO IRRIGATED AREAS ALONG THE MAIN STREAMS AND MAY NOT INDICATE CONDITIONS ON SMALL TRIBUTARIES.



## WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

as of

February 1, 1967



**COLORADO** - Near average snow conditions exist over most of Colorado. The exceptions to this is the Grand Mesa area which is 125% of normal and certain areas of the South Platte which are only 75%. Much snow is needed all over Colorado to insure good water supplies this summer. Reservoir storage is near normal or slightly above. There is far less carry-over this year than last. Much of the stored water was used last summer because of the deficient streamflow. Soil moisture in the irrigated areas is only fair and the mountain soils are dry. The next three months will have to produce above average snow to assure all areas of sufficient water this spring.



**NEW MEXICO** - Snow pack in New Mexico is the poorest it has been in some years. Many snow courses are approaching a minimum of record for February 1st. Snow pack in the headwaters area of the Rio Grande in Colorado is near normal, but won't nearly make up for the poor snow in New Mexico. Reservoir storage is not good, but near average and will be some help this summer. Valley soils are reported to be in poor condition. Very little precipitation has fallen in this area this winter. Mountain soils are dry over most of the state which will tend to reduce runoff this summer.

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##### WATERSHED I

###### SOUTH PLATTE RIVER WATERSHED

Describes water supply conditions in Fort Collins, Big Thompson, Longmont, Boulder Valley, Jefferson, Teller-Park, Douglas County, Morgan, Kiowa, West Arapahoe, West Adams, East Adams, Platte Valley, Southeast Weld, and West Greeley Soil Conservation Districts.

##### WATERSHED II

###### ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Boone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Branson Trinchera, Western Baca County, Southeastern Baca County, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, West Otero, East Otero, and Big Sandy Soil Conservation Districts.

##### WATERSHED III

###### RIO GRANDE WATERSHED (COLORADO)

Describes water supply conditions in Rio Grande, Center, Mosca Hooper, Mt. Blanca, Sanches, and Culebra Soil Conservation Districts.

##### WATERSHED IV

###### RIO GRANDE WATERSHED (NEW MEXICO)

Describes water supply conditions in Lower Cebolla, Abiquiu-Vallecitos, Eastern Taos, Lindrieth, Coyote-Canones, Espanola Valley, Pojoaque, Jemez, Santa Fe-Sandoval, Tijeras, Cuba, and Englewood Soil Conservation Districts.

##### WATERSHED V

###### DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

Describes water supply conditions in San Miguel Basin, Dove Creek, Dolores, Mancos, LaPlata, Pine River, San Juan, and Glade Park Soil Conservation Districts.

##### WATERSHED VI

###### GUNNISON RIVER WATERSHED

Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompahgre Soil Conservation Districts.

##### WATERSHED VII

###### COLORADO RIVER WATERSHED

Describes water supply conditions in DeBeque, Lower Grand Valley, Bookcliff, Eagle County, Middle Park, Glade Park, Upper Grand Valley, Plateau Valley, South Side, and Mt. Sopris Soil Conservation Districts.

##### WATERSHED VIII

###### YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, Upper White River, Lower White River, and Douglas Creek Soil Conservation Districts.

##### WATERSHED IX

###### LOWER SOUTH PLATTE RIVER WATERSHED

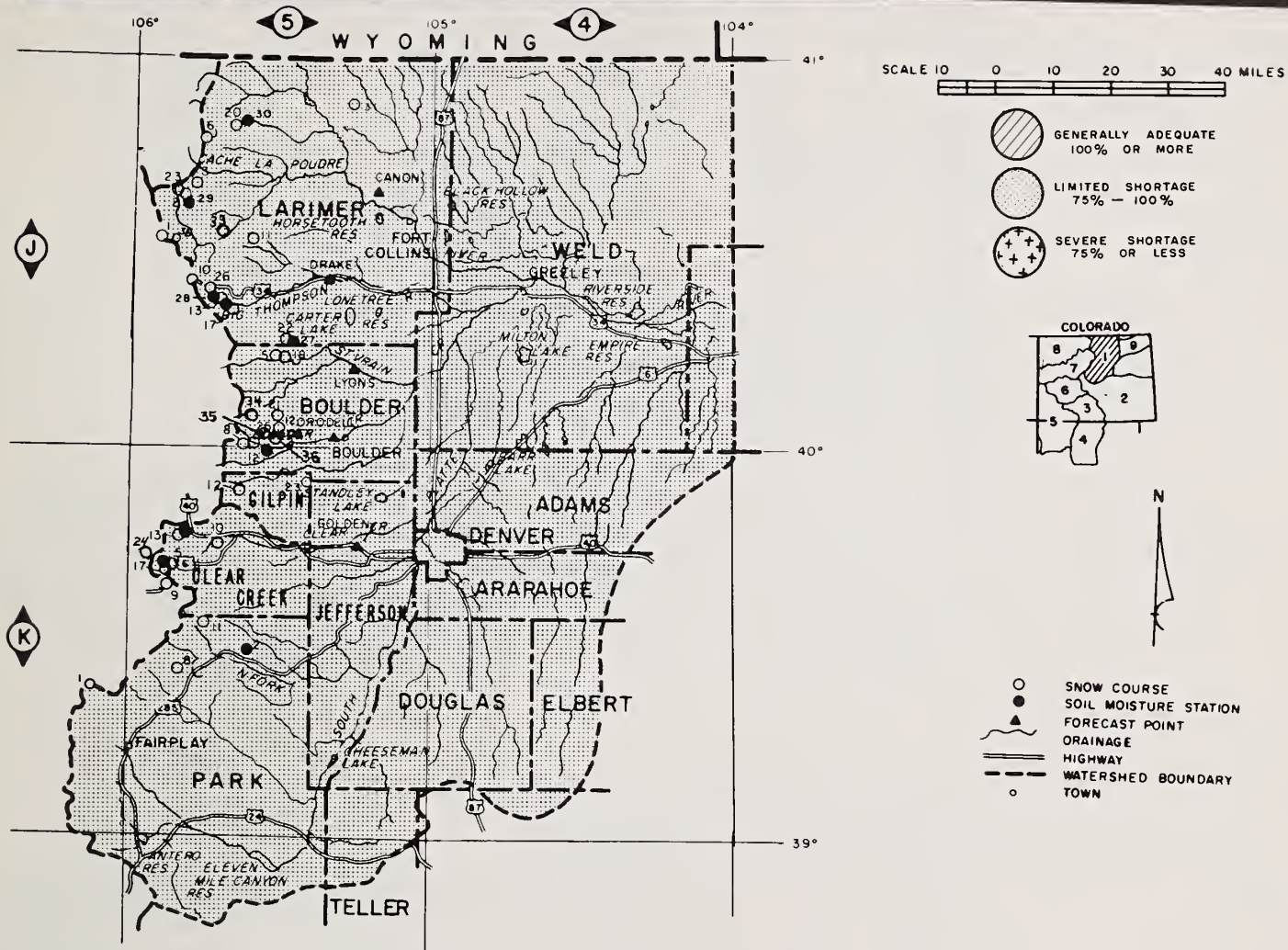
Describes water supply conditions in Sedgwick, South Platte, Haxton Peetz, Padroni, Morgan, Rock Creek and Yuma Soil Conservation Districts.

WATERSHED I

# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SOUTH PLATTE RIVER WATERSHED IN COLORADO as of

February 1, 1967

**U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The South Platte and its many tributaries could be in for another water shortage unless the next 90 days produce much above normal snow fall. The basin as a whole has about 70% of normal snow pack for this date. The only snow course in the entire basin that is above normal is Cameron Pass at the headwaters of the Cache La Poudre. Snowfall is slightly better at the higher elevations. Many of the low elevation snow courses are only half of the 1948-62 average.

Last year the area had excellent carry-over storage, but this year the farmers cannot depend so heavily on storage. Reservoirs contain just slightly less than normal while last year they contained 150% of normal. Big Thompson Reservoirs on the east slope are slightly above normal, but Granby contains only 54% of its normal storage.

Soil moisture in the mountains is poorer than last year at this time, but still nearly normal. Soil moisture in the irrigated areas is reported from poor to fair.

No numerical forecasts of streamflow are issued until March 1st.

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,  
Colorado

E. A. Nicholson, Area Conservationist,  
Littleton, Colorado

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

## SNOW

## CURRENT INFORMATION

## PAST RECORD

Snow Course	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Avg. 48-62
South Platte River & Tributaries					
Baltimore	1/31	10	2.5	1.5	- -
Bennett Creek	2/1	18	3.5	2.6	- -
Berthoud Falls	1/31	30	6.1	8.8	9.0*
Big South	1/28	7	1.8	1.1	2.0
Boulder Falls	1/31	22	4.8	4.4	7.9*
Cameron Pass	1/28	48	14.9	14.2	13.7
Chambers Lake	1/28	20	4.7	3.1	6.0
Copeland Lake	1/30	7	2.8	0.7	3.8*
Deadman Hill	1/31	32	7.4	10.8	8.8
Deer Ridge	1/28	9	1.3	1.8	3.6*
Empire	1/31	15	3.5		4.9*
Geneva Park	1/30	14	2.6	1.6	3.5*
Grizzly Peak (B)	1/30	39	8.8	7.0	11.5
Hidden Valley	1/28	22	4.2	3.9	7.5
Hoosier Pass	1/26	27	6.2	5.5	8.1
Hour Glass Lake	NS			- -	4.3
Jefferson Creek	1/25	24	4.9	- -	6.9*
Lake Irene (B)	NS			11.5	14.1
Long's Peak	1/29	19	4.1	3.5	7.6*
Lost Lake	1/28	25	5.9	4.9	8.2*
Loveland Lift No. 1	1/31	52	14.1	10.7	- -
Loveland Pass	1/31	37	8.6	6.0	9.6
Pine Creek	1/27	5	0.9	0.5	- -
Red Feather	1/27	14	2.4	2.4	5.1*
Two Mile	1/28	30	5.9	6.1	9.0*
University Camp	1/31	29	7.9	5.8	12.9
Ward	1/31	12	2.6	0.7	4.0*
Wild Basin	NS			4.9	9.4

## RESERVOIR STORAGE (1,000 Acre-Feet)

Reservoir	Usable Capacity	This Year	Last Year	15 Year Average 1948-62
Antero	33.0	15.0	15.9	13.4
Barr Lake	32.2	13.2	26.0	18.6
Black Hollow	8.0	3.3	4.2	3.1
Boyd Lake	44.0	28.0	41.2	18.4
Cache La Poudre	9.5	2.6	8.3	5.8
Carter Lake	108.9	66.4	106.3	54.0
Chambers Lake	8.8	2.5	5.5	2.0
Cheeseman	79.0	30.0	79.0	49.4
Cobb Lake	34.3	0	7.4	9.3
Eleven Mile	97.8	90.1	87.6	74.2
Fossil Creek	11.6	5.4	9.7	5.4
Gross	43.1	24.5	33.3	- -
Halligan	6.4	2.2	4.8	2.4
Horsetooth	143.5	69.6	78.9	61.1
Lake Loveland	14.3	3.7	8.4	6.5
Lone Tree	9.2	4.1	8.0	5.6
Mariano	5.4	3.9	5.1	2.5
Marshall	10.3	1.0	6.2	2.1
Marston	18.0	15.1	15.6	13.5
Milton	24.4	6.0	13.4	10.1
Standley	18.5	6.3	15.5	8.2
Terry Lake	8.2	4.2	5.7	4.3
Union	12.7	6.1	12.7	7.6
Windsor	18.6	3.5	11.0	7.5

## MEASURED FIRST OF MONTH

## STREAMFLOW FORECAST (1,000 Acre-Feet)

Stream and Station	Forecast Period April - Sept.	This Year % of Avg.	Avg. 1948-1962
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No forecasts issued until March 1, 1967.

## SOIL MOISTURE

Station	Date of Survey	Capacity (Inches)	This Year	Last Year	Avg. All Data
Alpine Camp	10/10	6.9	3.7	5.5	3.6
Beaver Dam	11/30	7.1	2.9	5.5	3.9
Clear Creek	10/3	9.5	7.1	8.0	9.0
Feather	10/11	10.1	3.9	5.1	4.6
Guard Station	10/30	6.9	2.5	5.0	3.4
Hoop Creek	11/8	4.9	3.0	3.6	2.8
Hoosier Pass	11/15	7.8	4.1	4.8	5.0
Kenosha Pass	11/15	4.4	2.1	3.1	2.6
Laramie Road	10/11	12.4	8.6	11.9	7.9
Two Mile	11/30	9.1	4.1	6.5	5.6

ALL PROFILES 4 FEET DEEP

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SOIL CONSERVATION SERVICE

Snow Survey  
Colorado State University  
Fort Collins, Colorado

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- (1) Observed flow minus diversions from Michigan, Colorado and Laramie Rivers, plus diversions for irrigation and municipal use above station.
- (2) Observed flow plus by-pass to power plants.
- (3) Observed flow minus diversions through Jones Pass.

NOTE: \* - 1948-62 (adjusted average)

NS - NO SURVEY

(A) - AIR OBSERVED

(B) - ON ADJACENT DRAINAGE

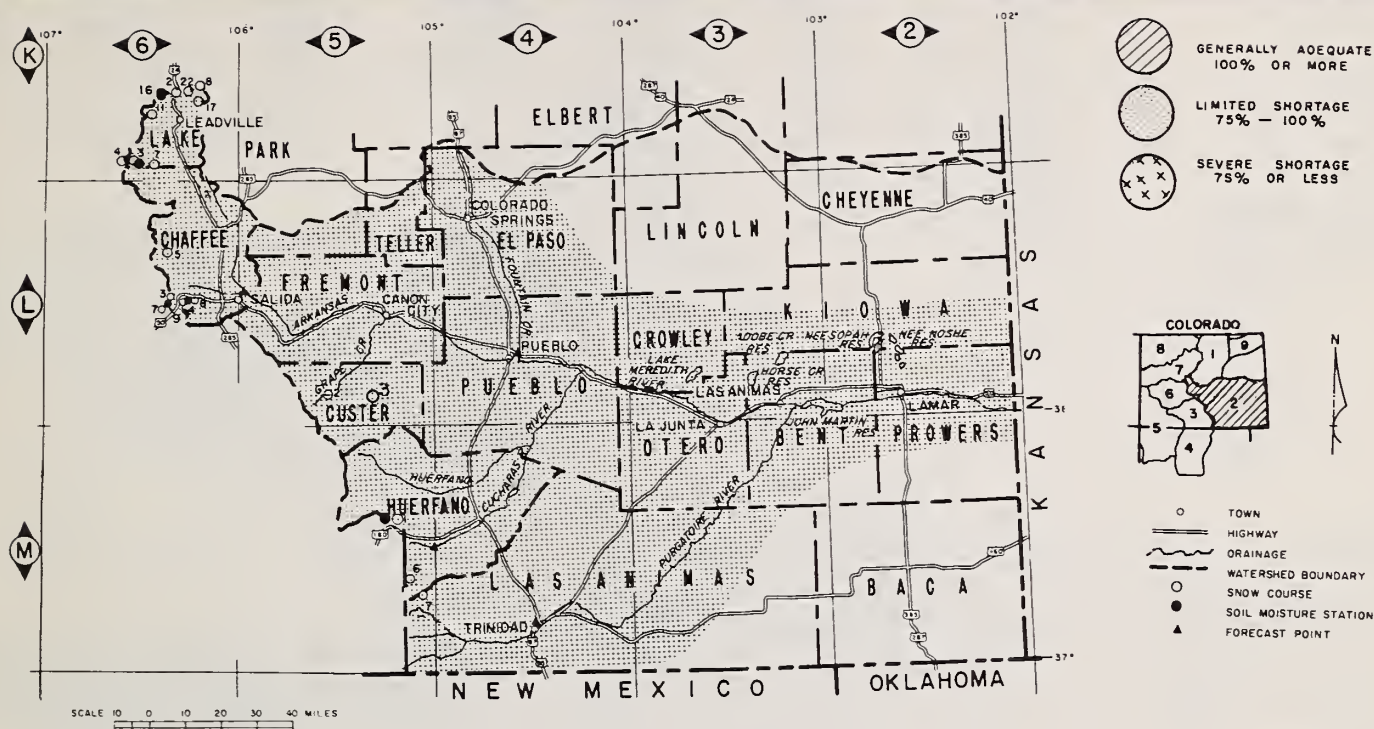
This Report Prepared by Jack N. Washichek and Donald W. McAndrew, Soil Conservation Service, Colorado State University, Fort Collins, Colo.

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WATERSHED II

WATER SUPPLY OUTLOOK  
FOR THE SOIL CONSERVATION DISTRICTS IN THE  
**ARKANSAS RIVER WATERSHED IN COLORADO**  
as of  
February 1, 1967

**U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



If the next three months produce normal or slightly above snowfall, the Arkansas River mainstem should flow near normal this summer. Snowfall in the headwaters is just slightly below normal at this time. The snow pack on the Purgatoire is much below normal and some good storms are needed in that area.

Reservoir carry-over storage is still 125% of normal and will be an excellent supplement this summer. Last year at this time, however, there was nearly twice as much storage as now. Much of the storage was used last summer. John Martin now contains 195,000 acre feet compared to 376,000 acre feet last year at this time. Mountain soil moisture is slightly better than normal, but considerably less than last year at this time. Valley soil moisture is reported as fair in most places, however, some areas report good conditions.

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,  
Colorado

Will D. McCorkle, Area Conservationist,  
La Junta, Colorado

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

SNOW		CURRENT INFORMATION			PAST RECORD	
Snow Course	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		
				Last Year	Avg. 48-62	
Arkansas River						
Bigelow Divide	NS			- -	- -	
Blue Lakes	NS			1.6	- -	
Bourbon	NS			- -	- -	
Cooper Hill	1/30	31	7.3	5.1	- -	
Cucharas Pass	1/30	13	2.3	5.9	- -	
East Fork	1/30	27	6.5	5.1	5.9*	
Four Mile Park	1/30	24	6.3	4.4	3.4	
Fremont Pass	1/30	38	10.0	7.8	10.7	
Garfield	1/31	33	8.7	7.1	- -	
LaVeta Pass (B)	1/30	16	3.7	6.4	6.8	
Monarch Pass	1/31	38	10.0	8.3	11.5	
St. Elmo (A)	1/28	34	8.2	4.4	8.7*	
Tennessee Pass	1/30	32	7.9	6.6	6.4	
Tomichi	1/31	30	8.3	6.7	- -	
Twin Lakes Tunnel	1/31	28	7.0	4.8	6.9	
Westcliffe	NS			- -	- -	

RESERVOIR STORAGE (1,000 Acre-Feet)				
Reservoir	Usable Capacity	This Year	Last Year	15 Year Average 1948-62
Adobe Creek	61.6	28.9	57.1	13.1
Clear Creek	11.4	7.1	11.2	5.3
Cucharas	40.0	1.6	0	5.2
Great Plains	150.0	49.0	60.0	40.0
Horse Creek	26.9	8.8	23.3	5.2
John Martin	366.6	195.0	375.6	70.8
Meredith	41.9	7.2	26.0	6.2
Model	15.0	1.0	3.9	2.3
Sugar Loaf	17.4	9.5	15.5	6.8
Twin Lakes	57.9	17.4	52.1	19.3

MEASURED FIRST OF MONTH

STREAMFLOW FORECAST (1,000 Acre-Feet)			
Stream and Station	Forecast Period April - Sept.	This Year % of Avg.	Avg. 1948-1962

No forecasts issued until March 1, 1967.

#### SOIL MOISTURE

Station	Date of Survey	Capacity (Inches)	This Year	Last Year	Avg. All Data
Garfield	11/7	6.7	4.4	6.1	3.6
King	11/7	3.3	1.6	3.0	1.9
LaVeta Pass	12/7	11.9	7.5	10.6	6.9
Leadville	10/3	7.8	3.7	5.6	4.1
Twin Lakes Tunnel	11/3	4.5	2.6	3.6	2.2

ALL PROFILES 4 FEET DEEP

- (4) Observed flow plus change in Clear Creek, Twin Lakes, and Sugar Loaf Reservoirs minus diversions through Busk-Ivanhoe and Twin Lake Tunnels and Ewing, Fremont Pass, Wurtz and Columbine Ditches.

NOTE: \* - 1948-62 (adjusted averages)  
 NS - NO SURVEY  
 (A) - AIR OBSERVED  
 (B) - ON ADJACENT DRAINAGE

This Report Prepared by Jack N. Washichek and Donald W. McAndrew, Soil Conservation Service, Colorado State University, Fort Collins, Colo.

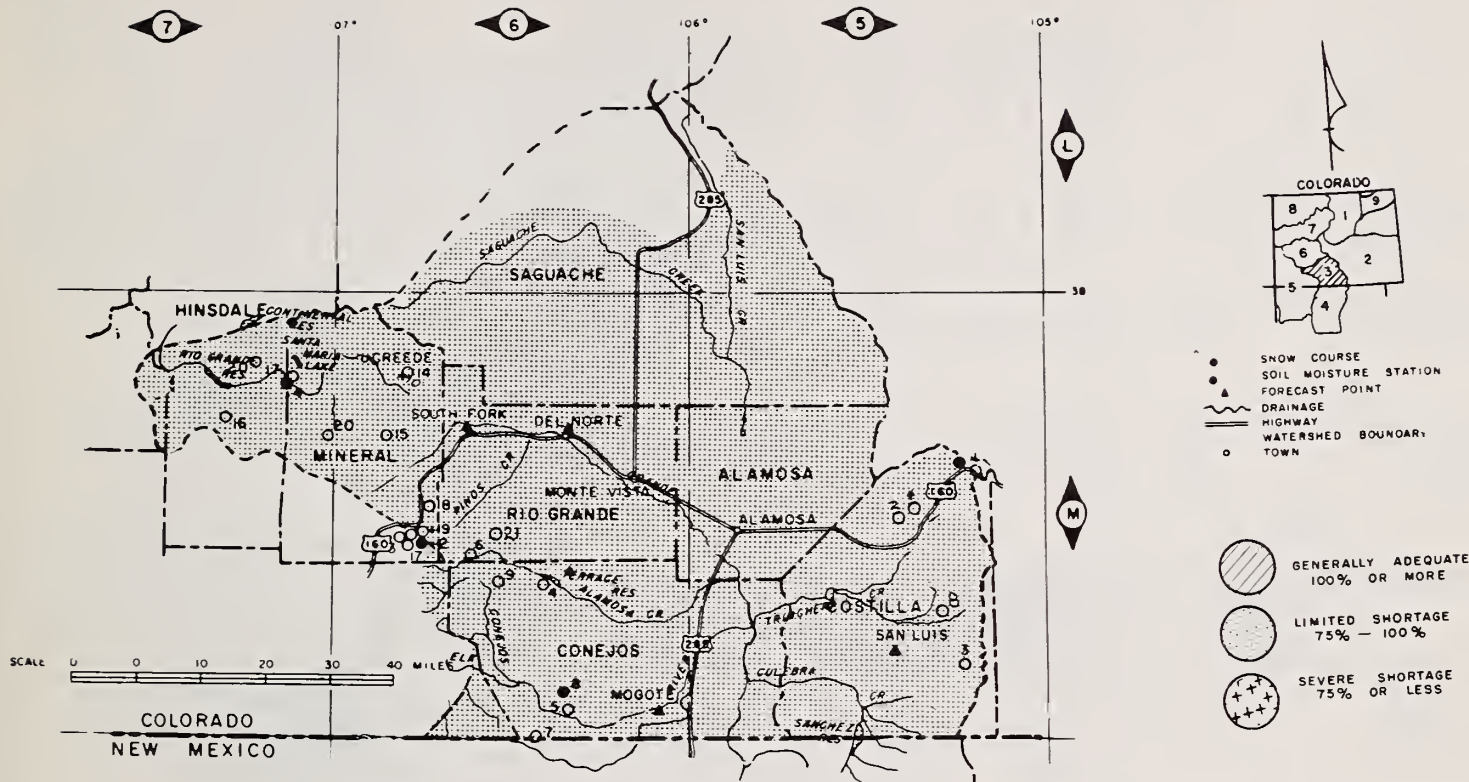
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 Colorado State University  
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WATERSHED III

WATER SUPPLY OUTLOOK  
FOR THE SOIL CONSERVATION DISTRICTS IN THE  
**UPPER RIO GRANDE WATERSHED IN COLORADO**  
as of  
February 1, 1967

**U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The headwater area of the Rio Grande in Colorado has received several storms that added much needed snow to the high country, but failed to add much to the medium elevations. Some of the higher snow courses, such as Wolf Creek Pass are above normal while the area around Upper Rio Grande Reservoir is only about 50% normal.

All areas considered, the snow pack is almost exactly normal on the Rio Grande. Snow on the Alamosa Drainage is about 75% of normal, 60% of normal on the Sangre De Cristo streams and slightly above normal on the Conejos.

High elevation soils contain less than normal moisture and considerably less than last year. This will reduce runoff slightly.

Reservoir carry-over storage is only 65% of normal and only about one-third of last year. Soils are reported as poor in the San Luis Valley and only fair in other irrigated areas. About 65% of the year's snow should have fallen by now, so some time remains to build up the snow pack.

Numerical forecasts will start March 1st, but general conditions indicate a near normal water supply this summer.

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,  
Colorado

R. K. Griffin, Area Conservationist,  
Durango, Colorado

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

## SNOW

SNOW	CURRENT INFORMATION			PAST RECORD	
Snow Course	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Avg. 48-62
<u>Rio Grande in Colorado</u>					
Cochetopa Pass	1/24	10	1.0	2.5	3.9*
Hiway	1/30	59	19.3	19.4	14.6*
Lake Humphreys (A)	1/30	20	4.0	6.0	- -
Love Lake	1/30	21	4.2	- -	- -
Pass Creek	1/30	33	8.5	12.0	8.2*
Pool Table (A)	1/30	16	3.5	7.0	- -
Porcupine (A)	1/30	30	7.0	8.0	9.0*
Red Mountain Pass (B)	1/30	62	17.3	18.0	18.0*
Santa Maria	1/29	19	4.1	3.8	4.1
Upper Rio Grande	1/28	24	3.6	7.0	6.1
Wolf Creek Pass	1/30	69	22.1	23.8	19.3
Wolf Creek Summit	1/30	68	19.8	24.7	19.1*
<u>Alamosa River</u>					
Silver Lakes	1/27	7	2.7	- -	5.1
Summitville (A)	1/30	36	10.1	14.1	11.9
<u>Conejos River</u>					
Cumbres Pass (A)	1/30	58	18.0	19.3	13.0
Platoro (A)	1/30	48	13.4	14.4	- -
River Springs	1/27	17	3.4	4.2	6.0
<u>Sangre De Cristo Range</u>					
Blue Lakes (B)	Destroyed				
Cucharas Pass (B)	1/30	13	2.3	5.9	- -
Culebra (A)	1/30	21	4.3	8.7	6.6
LaVeta Pass	1/30	16	3.7	6.4	6.8

## SOIL MOISTURE

Station	Date of Survey	Capacity (Inches)	This Year	Last Year	Avg. All Data
Alberta Park	12/5	8.2	3.9	8.2	5.0
Bristol View	NS	6.1		4.9	4.0
LaVeta Pass	12/7	11.9	7.5	10.6	6.9
Mogote	12/7	10.7	5.9	6.7	5.4

ALL PROFILES 4 FEET DEEP

## RESERVOIR STORAGE (1,000 Acre-Feet)

Reservoir	Usable Capacity	This Year	Last Year	15 Year Average 1948-62
Continental	26.7	4.2	8.4	4.7
Platoro	60.0	3.0	17.3	- -
Rio Grande	45.8	7.8	35.6	11.9
Sanchez	103.2	9.2	15.2	10.2
Santa Maria	45.0	2.7	18.1	6.6
Terrace	17.7	5.1	10.9	2.7

MEASURED FIRST OF MONTH

## STREAMFLOW FORECAST (1,000 Acre-Feet)

Stream and Station	Forecast Period April - Sept.	This Year % of Avg.	Avg. 1948-1962
No forecasts issued until March 1, 1967.			

- (5) Observed flow plus change in storage in Santa Maria, Rio Grande and Continental Reservoir.
- (6) Observed flow plus changes in storage in Sanchez Reservoir.

NOTE: \* - 1948-62 (adjusted averages)

NS - NO SURVEY

(A) - AIR OBSERVED

(B) - ON ADJACENT DRAINAGE

This Report Prepared by Jack N. Washichek and Donald W. McAndrew, Soil Conservation Service, Colorado State University, Fort Collins, Colo.

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# RIO GRANDE WATERSHED IN NEW MEXICO

as of

February 1, 1967

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



Current snow conditions in New Mexico are far below normal. First of the month surveys on 13 snow courses in New Mexico indicate only about 46% of normal snow cover. Only once before in the last 25 years was there less snow in the Red River area. Most reporting stations are approaching minimum of record.

The snow pack on the Upper Rio Grande in Colorado is near average, but the majority of this snow is at the very high elevations. The medium to low elevation snow fields are indicating below normal.

Carry-over storage in the major reservoirs on the Rio Grande are 95% of normal which will be a good supplement this summer. Elephant Butte contains 367,000 acre feet.

Conchas Reservoir on the Canadian Drainage contains 183,000 acre feet which is 75% of normal.

Red Bluff Reservoir contains 232,000 acre feet of which is far above average. Other reservoirs on the Pecos are near average for this time of year.

Mountain soils are dry according to data from soil moisture stations.

Little winter precipitation has fallen on the irrigated areas of New Mexico leaving poor soil moisture conditions in most places.

Only about 50 days remain to increase the snow pack in New Mexico. Much above normal snow fall must occur during this period to insure adequate water this summer.

Issued By: Soil Conservation Service

Einar L. Roget, State Conservationist,  
Albuquerque, New Mexico

Walter B. Rumsey, Area Conservationist,  
Santa Fe, New Mexico

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

## SNOW

## CURRENT INFORMATION

## PAST RECORD

Snow Course	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Avg. 48-62
Rio Grande (Colorado)					
Culebra	1/30	21	4.3	8.7	6.6
Cumbres Pass (A)	1/30	58	18.0	19.3	13.0
LaVeta Pass	1/30	16	3.7	6.4	6.8
Platoro (A)	1/30	48	13.4	14.4	-
River Springs	1/27	17	3.4	4.2	6.0
Santa Maria	1/29	19	4.1	3.8	4.1
Silver Lakes	1/27	7	2.7	-	5.1
Summitville (A)	1/30	36	10.1	14.1	11.9
Upper Rio Grande	1/28	34	3.6	7.0	6.1
Wolf Creek Pass	1/30	69	22.1	23.8	19.3
Aspen Grove (New Mexico)	NS			-	3.0
Bateman	NS			-	7.8*
Big Tesuque	1/27	5	1.2	4.5	3.7
Blue Bird Mesa	1/26	5	2.1	4.8	-
Capuline Peak	1/26	12	1.6	2.5	-
Chama Divide	1/30	10	1.8	5.9	3.9
Chamita	1/30	26	5.9	7.8	6.8
Cordova (A)	1/30	15	3.0	4.2	7.0
Elk Cabin	NS			2.8	2.9
Fenton Hill	1/27	8	1.3	4.1	3.4*
Hematite Park	1/25	11	1.3	4.1	3.8
Mora View	1/25	4	0.3	0.8	-
Pajarito Peak	1/26	1	0.5	2.3	-
Panchuela	1/26	8	1.0	4.3	2.6
Payrole (A)	1/30	13	3.0	5.8	7.0
Philmont	NS			-	-
Quemazon	1/27	15	3.3	6.0	6.8*
Red River	1/25	13	1.6	4.8	5.3
Rio En Medio	1/27	14	3.2	7.4	5.2*
Sandavol	1/27	6	1.0	4.4	-
Taos Canyon	1/26	11	1.4	3.2	3.9
Tres Ritos	1/25	9	1.4	2.6	3.8
Twinning	1/26	28	7.6	11.0	

## RESERVOIR STORAGE (1,000 Acre-Feet)

Reservoir	Usable Capacity	This Year	Last Year	15 Year Average 1948-62
Alamogordo	122.1	60.0	49.0	74.3
Elephant Butte	2206.8	366.6	567.6	390.2
El Vado	194.5	2.6	0	25.7
Caballo	344.0	58.7	19.9	79.8
McMillan-Avalon	37.0	26.5	8.7	15.1
Red Bluff (Tex)	307.0	232.0	51.8	71.4
Conchas	600.0	183.2	249.2	239.5

MEASURED FIRST OF MONTH

## STREAMFLOW FORECAST (1,000 Acre-Feet)

Stream and Station	Forecast as Indicated	This Year % of Avg.	Avg. 1948 - 52
No forecasts issued until March 1, 1967.			

The Forecast of the Rio Grande at San Marcial is \_\_\_\_\_ % of the Average used by the Elephant Butte Irrigation District.

A-S is April through September.  
A-J is April through July.  
M-J is March through July.

- (7) Observed flow plus changes in storage in El Vado and Abiquiu Reservoirs.  
(8) Observed flow plus changes in storage in Costilla Reservoir.

NOTE: \* - 1948-62 (adjusted averages)  
NS - NO SURVEY  
(A) - AIR OBSERVED  
(B) - ON ADJACENT DRAINAGE

This Report Prepared by Jack N. Washichek and Donald W. McAndrew, Soil Conservation Service, Colorado State University, Fort Collins, Colo.

## SOIL MOISTURE

Station	Date of Survey	Capacity (Inches)	This Year	Last Year	Avg. All Data
Colorado					
Alberta Park	12/15	8.2	3.9	8.2	5.0
Bristol View		6.1		4.9	4.0
Mogote	12/7	10.7	5.9	6.7	5.4
New Mexico					
Aqua Piedra	10/31	7.2	2.2		3.3
Bateman	10/27	6.7	2.3	4.6	2.7
Big Tesuque	1/27	3.7	1.1	3.7	1.5
Chamita	11/14	8.0	2.4	5.0	2.2
Fenton Hill	10/27	6.5	2.1	4.2	4.0
Red Summit	10/31	4.8	1.5	1.7	2.4
Rio En Medio	1/27	3.5	1.1	3.5	1.4
Taos Canyon	10/31	3.3	2.3	2.3	2.2

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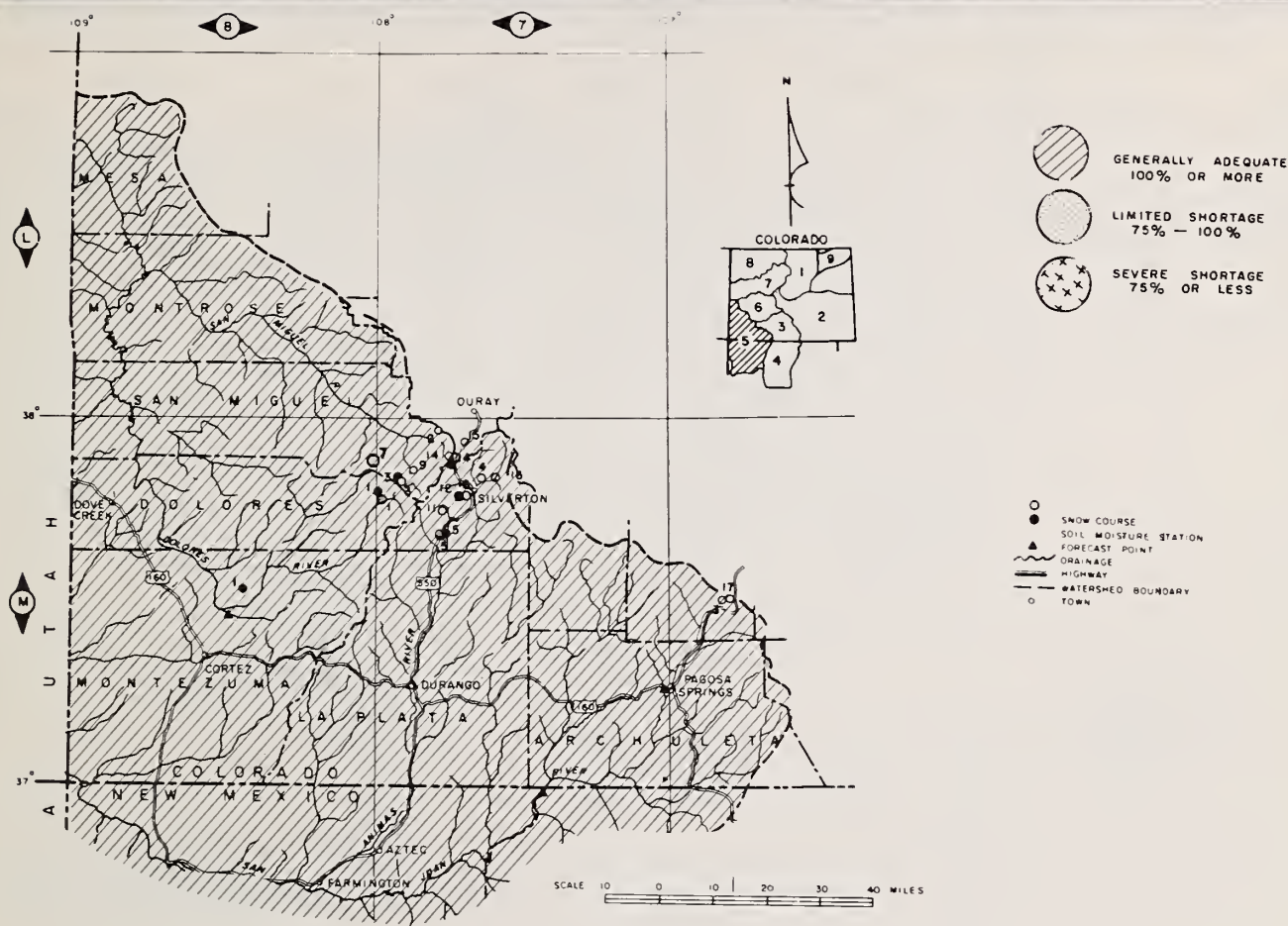
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WATER SUPPLY OUTLOOK  
FOR THE SOIL CONSERVATION DISTRICTS IN THE  
**SAN MIGUEL - DOLORES - ANIMAS - SAN JUAN**  
**WATERSHEDS IN COLORADO AND NEW MEXICO**

as of  
February 1, 1967

**U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



Snowfall is above normal over the entire San Juan Basin. The low elevation snow courses are not quite normal, but the high elevation courses more than make up for the deficit.

The headwaters of the San Juan is just slightly above normal while the Animas is about 110% of normal. The Dolores Basin is just slightly better than normal and almost the same as last year at this time.

More snow is needed in this area to insure adequate water this summer.

Carry-over storage in Groundhog and Vallecito is about 110% of normal, but only 65% of last year. Navajo contains 397,000 acre-feet compared to 284,000 acre-feet last year at this time.

Valley soils are in fair condition in the Bayfield and Durango area, while the Cortez area is reporting good soil moisture conditions.

Mountain soils contain slightly more moisture than normally, but are not in as good a condition as last year.

About two-thirds of the snowfall season has past, so not too much time remains to build up the pack.

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,  
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E. L. Roget, State Conservationist,  
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**'THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY'**

SNOW		CURRENT INFORMATION			PAST RECORD	
Snow Course		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
					Last Year	Avg. 48-62
San Juan River						
Chama Divide	(B)	1/30	10	1.8	5.9	3.9
Chamita	(B)	1/30	26	5.9	7.8	6.8
Upper San Juan		1/30	73	23.2	24.5	21.7
Wolf Creek Pass	(B)	1/30	69	22.1	23.8	19.3
Wolf Creek Summit		1/30	68	19.8	24.7	19.1*
Animas River						
Cascade		1/30	37	10.2	10.2	8.9
Howardville		NS			9.2	8.8*
Ironton Park	(B)	1/30	30	7.3	8.2	7.7
Mineral Creek		1/30	45	11.2	9.6	-
Molas Lake		1/30	41	11.8	10.0	9.8*
Red Mountain Pass		1/30	62	17.3	18.0	18.0*
Silverton Sub-Station		1/30	29	7.9	7.3	4.6
Spud Mountain		1/30	58	18.1	18.0	16.7*
Dolores River						
Lizzard Head		1/30	45	12.3	12.4	10.9
Rico		1/30	22	4.7	6.4	5.9
Telluride		1/30	19	5.0	4.8	5.0
Trout Lake		1/30	39	10.0	9.1	8.6*

# RESERVOIR STORAGE (1,000 Acre-Feet)

Reservoir	Usable Capacity	This Year	Last Year	15 Year Average 1948-62
Groundhog	21.7	7.8	18.4	5.7
Vallecito	126.3	50.6	74.0	45.8
Navajo	1036.0	397.5	284.0	- -

MEASURED FIRST OF MONTH

# STREAMFLOW FORECAST (1,000 Acre-Feet)

Stream and Station	Forecast Period April - Sept.	This Year % of Avg.	Avg. 1948-1962
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No forecasts issued until March 1, 1967.			
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NOTE: \* - 1948-62 (adjusted averages)  
NS - NO SURVEY  
(A) - AIR OBSERVED  
(B) - ON ADJACENT DRAINAGE

# SOIL MOISTURE

Station	Date of Survey	Capacity (Inches)	This Year	Last Year	Avg. All Data
Cascade	11/14	9.1	4.6	7.6	6.5
Dolores	11/14	19.6	12.5	9.8	5.2
Lizzard Head	11/14	11.8	8.1	8.3	8.4
Mineral Creek	11/14	5.7	3.0	4.8	3.7
Molas Lake	11/14	9.4	5.0	7.9	4.4
Rico	11/14	13.8	9.9	13.5	9.7

ALL PROFILES 4 FEET DEEP

This Report Prepared by Jack N. Washichek and Donald W. McAndrew, Soil Conservation Service, Colorado State University, Fort Collins, Colo.

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WATER SUPPLY OUTLOOK  
FOR THE SOIL CONSERVATION DISTRICTS IN THE  
**GUNNISON RIVER WATERSHED IN COLORADO**  
as of

February 1, 1967

**U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The snow pack on the Gunnison Drainage as a whole, is about 110% of normal, however, this probably is not a true picture. Snow on the Grand Mesa is 140% of normal which brings up the average in other areas. Snow on Cochetopa Pass is extremely short. The headwater area above Crested Butte and Taylor Park Reservoir is just about normal. Snow fall over the basin has been spotty. The lower to middle elevations have not received their share to date.

Considerably more snow is needed to insure adequate water this summer.

Storage in Taylor Park Reservoir is 43,400 acre feet compared to 80,000 acre feet last year and a normal carry-over of 54,000 acre feet.

Soil moisture in the mountain is better than normal, but not nearly as good as last year at this time.

Valley soils are in fair condition for this time of year. January was fairly warm and some of the snow that fell in the irrigated areas has melted.

About one-third of the winter remains to increase the snow pack, so there is still some time remaining. It is hoped the next 90 days produce above average snow fall.

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,  
Colorado

Dearl Beach, Area Conservationist,  
Grand Junction, Colorado

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

## SNOW

## CURRENT INFORMATION

## PAST RECORD

Snow Course	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Avg. 48-62
<u>Gunnison River</u>					
Alexander Lake (A)	1/29	59	15.9	12.3	12.9
Black Mesa	NS			-	-
Blue Mesa	NS			-	-
Butte	1/27	51	10.9	9.4	-
Cochetope Pass	1/24	10	1.0	2.5	3.9*
Crested Butte	1/26	46	8.1	7.9	8.9
Keystone	1/26	68	15.0	12.5	-
Lake City	NS			-	-
Long Gulch	NS			-	-
Mesa Lakes (B)	1/27	50	13.9	11.7	10.8
Monarch Pass (B)	1/31	38	10.0	8.3	11.5
McClure Pass (A)	1/29	52	12.5	13.2	12.5*
Mineral Creek (B)	1/30	45	11.2	9.6	-
North Lost Trail (A)(B)	1/29	35	8.4	9.4	9.5
Park Cone	1/27	42	8.2	5.2	7.1
Park Reservoir (A)	1/29	69	20.7	17.4	13.9
Porphyry Creek	1/31	38	10.5	8.8	10.5
Tomichi	1/31	30	8.3	6.7	-
Trickle Divide (A)(B)	1/29	72	21.6	16.9	15.3
<u>Uncompahgre River</u>					
Ironton Park	1/30	30	7.3	8.2	7.7
Lizzard Head	1/30	45	12.3	12.4	10.9
Lone Cone	1/27	46	11.0	-	-
Red Mountain Pass (B)	1/30	62	17.3	18.0	18.0
Telluride	1/30	19	5.0	4.8	5.0
Trout Lake	1/30	39	10.0	9.1	8.6*

## SOIL MOISTURE

Station	Date of Survey	Capacity (Inches)	This Year	Last Year	Avg. All Data
Grand Mesa	11/14	12.5	7.9	12.5	-
King	11/7	3.3	1.6	3.0	1.9
Mineral Creek	11/14	5.7	3.0	4.8	3.7
Placita	11/14	9.3	4.6	8.4	5.2

ALL PROFILES 4 FEET DEEP

## RESERVOIR STORAGE (1,000 Acre-Feet)

Reservoir	Usable Capacity	This Year	Last Year	15 Year Average 1948-62
Taylor	106.2	43.4	80.0	54.0

MEASURED FIRST OF MONTH

## STREAMFLOW FORECAST (1,000 Acre-Feet)

Stream and Station	Forecast Period	This Year % of Avg.	Avg. 1948-1962
	April - Sept.		
No forecasts issued until March 1, 1967.			

(9) Observed flow plus changes in storage in Vallecito Reservoir.

NOTE: \* - 1948-62 (adjusted averages)

NS - NO SURVEY

(A) - AIR OBSERVED

(B) - ON ADJACENT DRAINAGE

This Report Prepared by Jack N. Washichek and Donald W. McAndrew, Soil Conservation Service, Colorado State University, Fort Collins, Colo.

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SOIL CONSERVATION SERVICE

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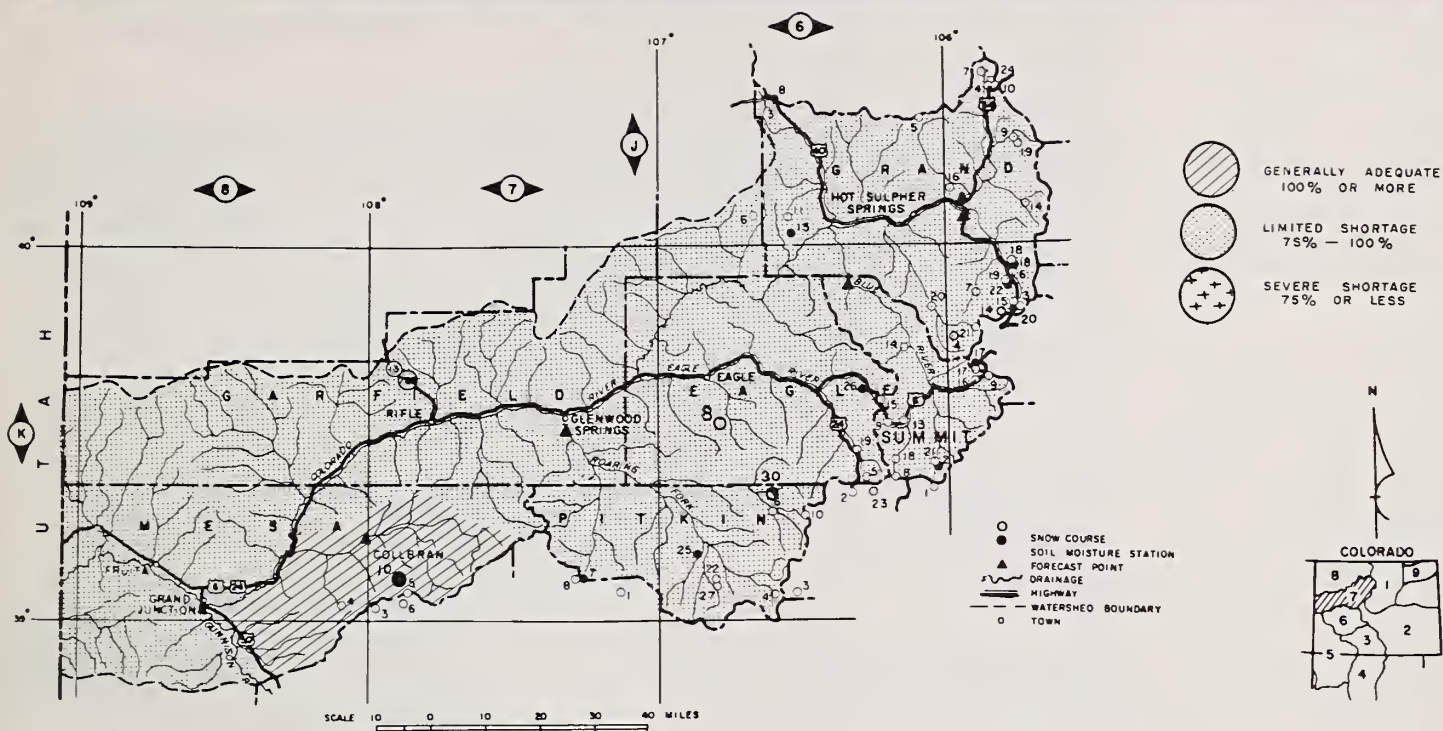
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WATERSHED VII

WATER SUPPLY OUTLOOK  
FOR THE SOIL CONSERVATION DISTRICTS IN THE  
**COLORADO RIVER WATERSHED IN COLORADO**  
as of  
February 1, 1967

**U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



Snow pack on the headwaters of the Colorado River is about 90% of the 1948-62 average. The snow fall has been fairly uniform over the entire upper basin. The Roaring Fork is just slightly below normal, but Plateau Creek originating on Grand Mesa is 136% of normal. This area has the best snow in the state.

Reservoir storage has little affect on this area, however, the storage is less than last year and considerably less than normal.

Nine mountain soil moisture stations indicate that soils are dry over most of the watershed. Some of the spring snow melt will be used to fill this void.

Numerical forecasts are not made until the season has progressed a little more. Several good storms could change the picture completely. About two-thirds of the snow year has passed. The next 90 days will have to produce above average snowfall to insure normal runoff this summer.

Valley soils are reported to be in fair condition for this time of year.

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,  
Colorado

D. B. Beach, Area Conservationist,  
Grand Junction, Colorado

R. L. Porter, Area Conservationist,  
Glenwood Springs, Colorado

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

## SNOW

Snow Course	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Avg. 48-62
Colorado River					
Arrow	1/27	31	5.7	5.9	6.8
Berthoud Pass	1/26	39	7.7	7.0	9.2
Berthoud Summit	1/31	40	10.8	8.4	12.3*
Blue River	1/27	22	4.2	3.7	5.2*
Cooper Hill	1/30	31	7.3	5.1	- -
Fiddlers Gulch	EST	35	9.8	7.6	10.5
Fremont Pass	1/30	38	10.0	7.8	10.7
Frisco	1/30	19	4.1	3.1	5.6*
Glen Mar Ranch	1/27	21	4.5	4.1	5.6
Gore Pass	1/26	26	5.9	4.1	6.8*
Granby	1/27	26	5.5	4.8	4.9*
Grand Lake	1/28	27	5.5	4.4	5.7*
Grizzly Peak	1/30	39	8.8	7.0	11.5
Hoosier Pass	1/26	27	6.2	5.5	8.1
Jones Pass	1/25	33	7.5	6.9	8.5*
Lake Irene	NS			11.5	14.1
Lapland	1/24	25	5.1	5.0	- -
Lulu	NS			- -	- -
Lynx Pass	1/26	37	7.6	4.9	7.2
McKinzie Gulch	1/26	24	4.4	3.1	- -
Middle Fork Campground	1/27	27	5.7	5.4	6.0
Milner	NS			- -	- -
Monarch Lake	NS			- -	7.5
North Inlet To Grand Lake	NS			4.8	6.4
Pando	1/30	23	5.9	4.9	5.9*
Phantom Valley	1/26	33	7.0	5.9	7.2
Ranch Creek	1/27	25	4.3	3.7	5.1*
Shrine Pass	1/31	41	10.0	7.3	11.1
Snake River	1/30	22	5.8	3.7	6.1*
Summit Ranch	NS			4.4	5.6*
Tennessee Pass	1/30	32	7.9	6.6	6.4
Vail Pass	1/31	34	8.0	9.4	10.9*
Vasquez Creek	1/26	34	5.9	4.9	7.7
Willow Creek	1/31	41	10.4	7.7	8.1
Roaring Fork River					
Aspen	1/29	44	10.0	9.4	- -
Independence Pass Tunnel	1/31	48	10.0	8.3	10.7
Ivanhoe	1/30	42	11.1	8.1	11.1
Lift	1/29	43	10.9	9.2	10.5*
McClure Pass (A)	1/29	52	12.5	13.2	12.5*
Nast	1/30	23	4.7	3.6	- -
North Lost Trail (A)	1/29	35	8.4	9.4	9.5
Plateau Creek					
Alexander Lake (A)	1/29	59	15.9	12.3	12.9
Mesa Lakes	1/27	50	13.9	11.7	10.8
Park Reservoir (A)	1/29	69	20.7	17.4	13.9
Trickle Divide	1/29	72	21.6	16.9	15.3

## SOIL MOISTURE

Station	Date of Survey	Capacity (Inches)	This Year	Last Year	Avg. All Data
Berthoud Pass	11/8	3.9	3.0	3.9	2.8
Blue River	11/15	4.2	2.0	3.5	2.9
Gore	11/8	4.9	2.3	3.1	2.6
Grand Mesa	11/14	12.5	7.9	12.5	- -
Muddy Pass	11/15	11.1	6.3	7.4	6.5
Placita	11/14	9.3	4.6	8.4	5.2
Ranch Creek	11/16	8.7	5.0	6.3	6.2
Vail	11/2	12.3	6.2	8.6	7.0
Vasquez Siphon	11/16	11.0	6.8	7.7	7.4

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DEPARTMENT OF AGRICULTURE

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## RESERVOIR STORAGE (1,000 Acre-Feet)

Reservoir	Usable Capacity	This Year	Last Year	15 Year Average 1948-62
Granby	465.5	116.0	250.0	214.6
Green Mt.	146.9	65.7	95.2	86.5
Williams Fork	96.8	3.1	40.2	- -
Vega	32.1	6.5	20.0	- -
Dillon	254.0	217.9	245.9	- -

MEASURED FIRST OF MONTH

## STREAMFLOW FORECAST (1,000 Acre-Feet)

Stream and Station	Forecast Period April - Sept.	This Year % of Avg.	Avg. 1948-1962
--------------------	-------------------------------	---------------------	----------------

No forecasts issued  
until March 1, 1967.

- (10) Observed flow plus change in storage in Dillon Reservoir.  
(11) Observed flow diversions by Adams Tunnel and Grand River Ditch plus change in storage in Granby Reservoir.  
(12) Observed flow plus the changes as indicated in (11) plus Moffat Ditch.  
(14) Observed flow plus diversion through Twin Lakes Tunnel.  
(15) Observed flow plus diversions through Jones Pass Tunnel.

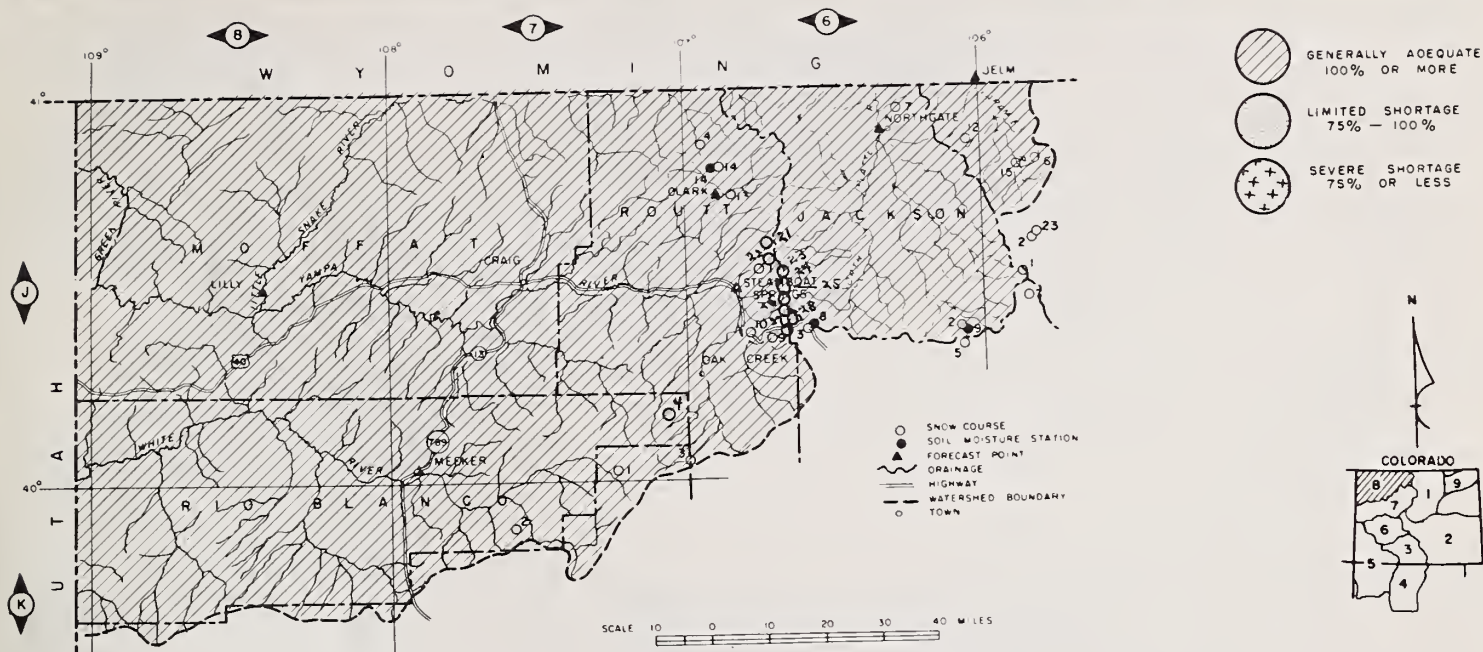
NOTE: \* - 1948-62 (adjusted averages)  
NS - NO SURVEY  
(A) - AIR OBSERVED  
(B) - ON ADJACENT DRAINAGE

This Report Prepared by Jack N. Washichek and Donald W. McAndrew, Soil Conservation Service, Soil Conservation Service, Fort Collins, Colo.

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WATER SUPPLY OUTLOOK  
FOR THE SOIL CONSERVATION DISTRICTS IN THE  
**YAMPA, WHITE, AND NORTH PLATTE**  
**RIVERS WATERSHEDS IN COLORADO**  
as of  
February 1, 1967

**U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The snow pack on the North Platte is normal for this time of year. The Yampa has only about 85% of normal snow pack, but should have adequate water if the snow continues normally.

The White River Drainage also has about 85% of normal snow cover and should have adequate water supplies this summer.

Mountain soils are drier than normal and much drier than last year at this time. Some of the spring snow water will be used to fill the void in the soil mantle. This will decrease runoff to some extent.

Valley soils in the Meeker and Steamboat Springs area is reported to be in good condition.

Numerical forecasts are not issued until March 1st. By then a good part of the winter snows will have fallen and realistic forecasts can be made.

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,  
Colorado

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Glenwood Springs, Colorado

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

SNOW		CURRENT INFORMATION			PAST RECORD		STREAMFLOW FORECAST (1,000 Acre-Feet)			
Snow Course		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Stream and Station	Forecast Period April - Sept.	This Year % of Avg.	Avg. 1948-1962
					Last Year	Avg. 48-62				
North Platte River										
Cameron Pass		1/28	48	14.9	14.2	13.7	No forecasts issued until March 1, 1967.			
Columbine Lodge		1/29	50	12.9	12.5	15.7				
Deadman Hill		1/31	32	7.4	10.8	8.8				
McIntyre	(B)	NS			-	-				
Northgate		1/30	20	5.0	3.4	3.9*				
Park View		1/31	30	7.1	5.4	5.8				
Roach	(A)	2/1	42	10.0	8.4	11.1				
Willow Creek Pass	(B)	1/31	41	10.4	7.7	8.1				
Yampa River										
Bear River		NS			-	-				
Clark	(A)	NS			9.2	-				
Columbine Lodge	(B)	1/27	50	12.9	12.5	15.7				
Dry Lake	(A)	1/28	48	11.2	11.1	13.6				
Elk River	(A)	1/28	47	12.2	10.4	11.5				
Hahn's Peak		NS			-	-				
Lynx Pass	(B)	1/26	37	7.6	4.9	7.2				
Rabbit Ears		1/27	54	12.8	15.0	19.1				
Yampa View		1/28	33	8.4	7.4	9.8*				
White River										
Burro Mountain	(A)	1/29	42	10.2	9.0	11.0				
Rio Blanco		1/29	33	7.9	5.9	9.9				

#### SOIL MOISTURE

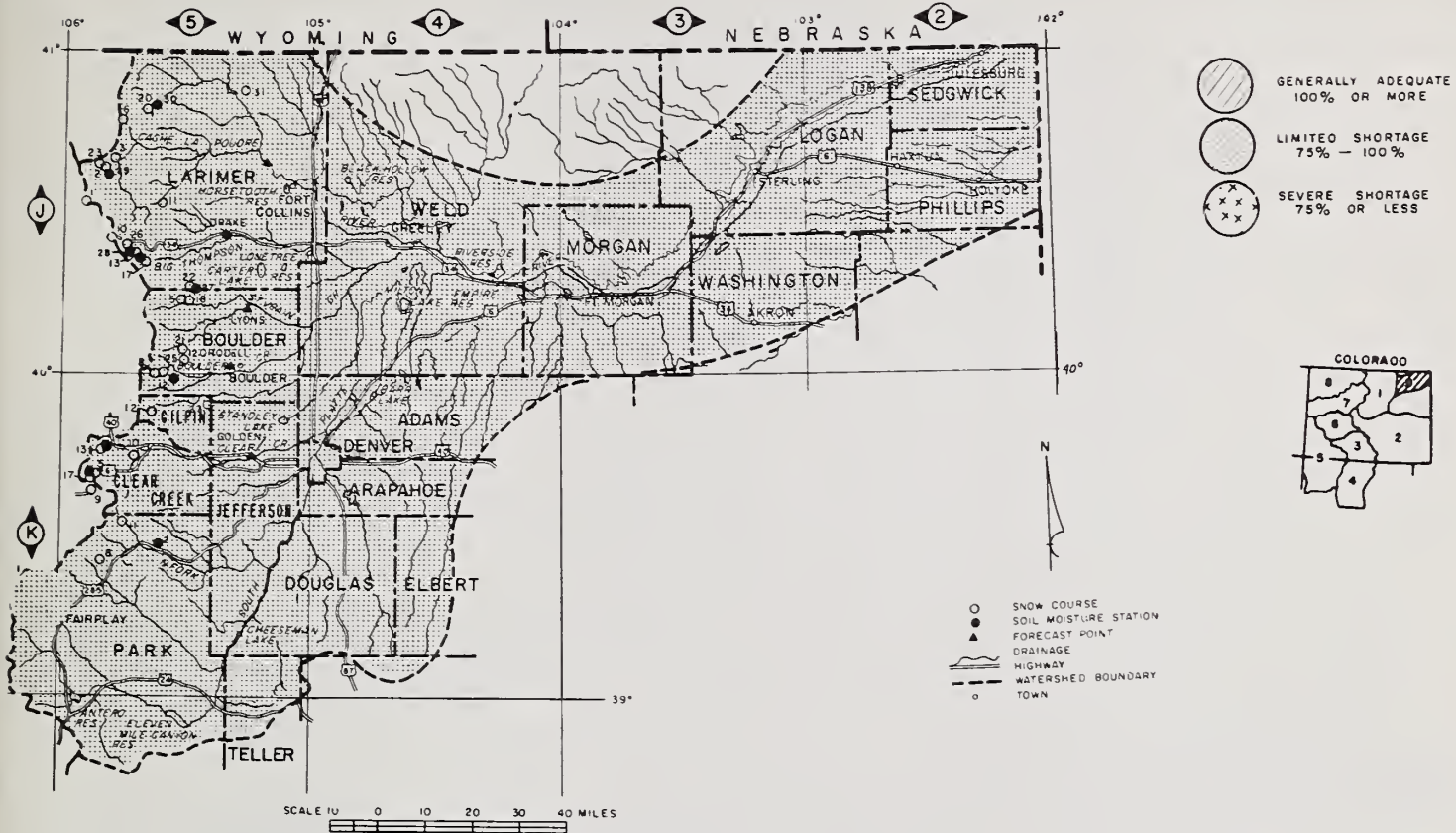
Station	Date of Survey	Capacity (Inches)	This Year	Last Year	Avg. All Data
Hahn's Peak	11/15	19.0	6.1	11.0	13.8
Laramie Road	10/11	12.4	8.6	11.9	7.9
Muddy Pass	11/15	11.1	6.3	7.4	6.5
Two Mile	11/30	9.1	4.1	6.5	5.6
Willow Pass	11/15	9.5	5.6	8.4	6.9

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WATER SUPPLY OUTLOOK  
FOR THE SOIL CONSERVATION DISTRICTS IN THE  
**LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO**  
as of  
February 1, 1967

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The South Platte and its many tributaries could be in for another water shortage unless the next 90 days produce much above normal snow fall. The basin as a whole has about 70% of normal snow pack for this date. The only snow course in the entire basin that is above normal is Cameron Pass at the headwaters of the Cache La Poudre. Snowfall is slightly better at the higher elevations. Many of the low elevation snow courses are only half of the 1948-62 average.

Carry-over storage is 102% of normal and only 70% of last year at this time. It will still be an excellent supplement this summer.

Soil moisture in the mountains is poorer than last year at this time, but still nearly normal. Soil moisture in the irrigated areas is reported from poor to fair.

No numerical forecasts of streamflow are issued until March 1st.

Issued By: Soil Conservation Service

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"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

## SNOW

## CURRENT INFORMATION

## PAST RECORD

Snow Course	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Avg. 48-62
South Platte River & Tributaries					
Baltimore	1/31	10	2.5	1.5	- -
Bennett Creek	2/1	18	3.5	2.6	- -
Berthoud Falls	1/31	30	6.1	8.8	9.0*
Big South	1/28	7	1.8	1.1	2.0
Boulder Falls	1/31	22	4.8	4.4	7.9*
Cameron Pass	1/28	48	14.9	14.2	13.7
Chambers Lake	1/28	20	4.7	3.1	6.0
Copeland Lake	1/28	7	2.8	0.7	3.8*
Deadman Hill	1/21	32	7.4	10.8	8.8
Deer Ridge	1/28	9	1.3	1.8	3.6*
Empire	1/31	15	3.5	-	4.9*
Geneva Park	1/30	14	2.6	1.6	3.5*
Grizzly Peak (B)	1/30	39	8.8	7.0	11.5
Hidden Valley	1/28	22	4.2	3.9	7.5
Hoosier Pass	1/26	27	6.2	5.5	8.1
Hour Glass Lake	NS	-	-	-	4.3
Jefferson Creek	1/29	24	4.9	-	6.9*
Lake Irene (B)	NS	-	-	11.5	14.1
Long's Peak	1/29	19	4.1	3.5	7.6*
Lost Lake	1/28	25	5.9	4.9	8.2*
Loveland Lift No. 1	1/31	52	14.1	10.7	- -
Loveland Pass	1/31	37	8.6	6.0	9.6
Pine Creek	1/27	5	0.9	0.5	- -
Red Feather	1/27	14	2.4	2.4	5.1*
Two Mile	1/28	30	5.9	6.1	9.0*
University Camp	1/28	29	7.9	5.8	12.9
Ward	1/31	12	2.6	0.7	4.0*
Wild Basin	NS	-	-	4.9	9.4

## RESERVOIR STORAGE (1,000 Acre-Feet)

Reservoir	Usable Capacity	This Year	Last Year	15 Year Average 1948-62
Carter	108.9	66.4	106.3	54.0
Cheeseman	79.0	30.0	79.0	49.4
Eleven Mile	97.8	90.1	87.6	74.2
Empire	37.7	-	25.8	22.5
Horsetooth	143.5	69.6	78.9	61.1
Jackson	35.4	-	30.0	26.8
Julesburg	28.2	20.5	19.8	20.0
Prewitt	32.8	9.4	20.8	15.8
Point of Rocks	70.0	41.7	65.9	44.8
Riverside	57.5	-	49.1	38.8

MEASURED FIRST OF MONTH

## STREAMFLOW FORECAST (1,000 Acre-Feet)

Stream and Station	Forecast Period April - Sept.	This Year % of Avg.	Avg. 1948-1962
No forecasts issued until March 1, 1967.			

## SOIL MOISTURE

Station	Date of Survey	Capacity (Inches)	This Year	Last Year	Avg. All Data
Alpine Camp	10/10	6.9	3.7	5.5	3.6
Beaver Dam	11/30	7.1	2.9	5.5	3.9
Clear Creek	10/3	9.5	7.1	8.0	9.0
Feather	10/11	10.1	3.9	5.1	4.6
Guard Station	10/30	6.9	2.5	5.0	3.4
Hoop Creek	11/8	4.9	3.0	3.6	2.8
Hoosier Pass	11/15	7.8	4.1	4.8	5.0
Kenosha Pass	11/15	4.4	2.1	3.1	2.6
Laramie Road	10/11	12.4	8.6	11.9	7.9
Two Mile	11/30	9.1	4.1	6.5	5.6

- (1) Observed flow minus diversions from Michigan, Colorado and Laramie Rivers, plus diversions for irrigation and municipal use above station.
- (2) Observed flow plus by-pass to power plants.
- (3) Observed flow minus diversions through Jones Pass.

NOTE: \* - 1948-62 (adjusted averages)  
 NS - NO SURVEY  
 (A) - AIR OBSERVED  
 (B) - ON ADJACENT DRAINAGE

This Report Prepared by Jack N. Washichek and Donald W. McAndrew, Soil Conservation Service, Colorado State University, Fort Collins, Colo.

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The following organizations cooperate in snow surveys for the Colorado, Platte, Arkansas and Rio Grande watersheds. Many other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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Colorado State Engineer  
New Mexico State Engineer  
Nebraska State Engineer  
Colorado Experiment Station  
Rocky Mountain Forest and Range Experiment Station

## FEDERAL

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Atomic Energy Commission

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City of Denver	City of Greeley
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## WATER USERS ORGANIZATIONS

Arkansas Valley Ditch Association  
Colorado River Water Conservation District

## IRRIGATION PROJECTS

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San Luis Valley Irrigation District  
Santa Maria Reservoir Company  
Costilla Land Company  
Uncompahgre Valley Water Users' Association  
Twin Lakes Reservoir and Canal Company  
Trinchera Irrigation Co.

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